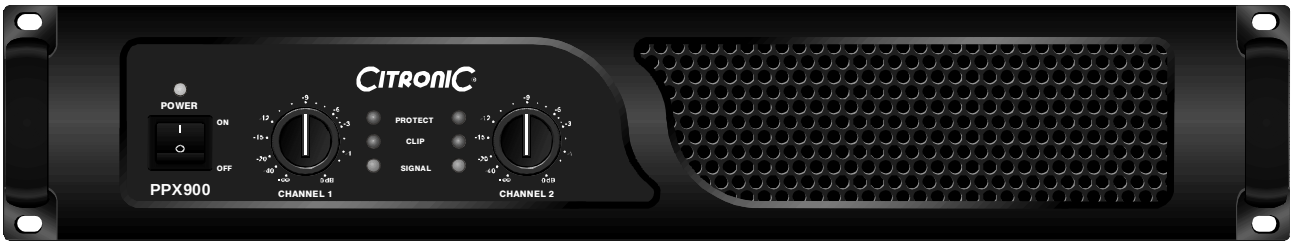
CITRONIC®

Professional Power Amplifier

Owner's Manual



PPX Series

Professional Power Amplifier

Before attempting to connect,operate or adjust this product,please read these instructions completely

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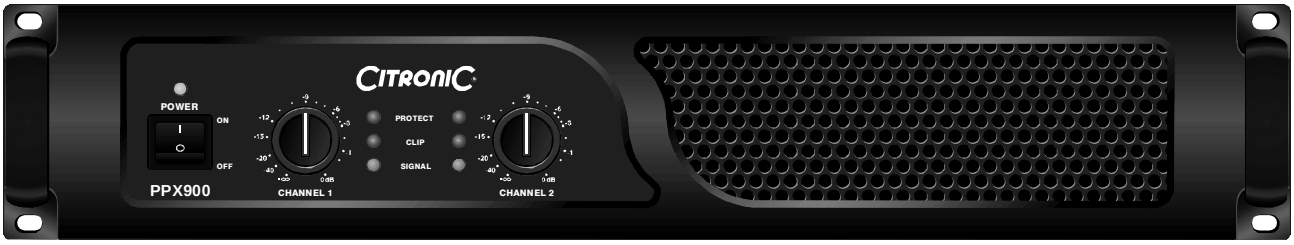
PPX Series
PROFESSIONAL POWER AMPLIFIER



Congratulations for choosing **CITRONIC PPX** Series professional power amplifier. You purchased one of the finest stereo amplifiers on the market today. This unit was developed using the expertise of professional sound engineers and working musicians. You will find that your new **CITRONIC PPX** Series amplifier has superior performance and greater flexibility than any other amplifiers in its price range. Please read this manual carefully to get the most out of your new unit.

FEATURES

Offering top power, superior performance and full professional operating features in a roadworthy compact chassis, the **PPX** Series are perfect for even the most demanding sound reinforcement installation and touring applications.

The operating amplifier instruction in this manual are for all the **PPX** Series professional power amplifiers. The operation and functions of these units are the same, except as noted.

- Full operating features: detent volume controls; parallel balanced XLR and 1/4" TRS inputs; stereo (dual channel), parallel-input, or bridged mono operating modes with selector switch; Independent user defeatable clip limiters (compressor) 3 selectable input sensitivities, ground lift switch, binding post (banana plug) and speakon outputs.
- Full safety/reliability features: 2 dual speed fans for cooling; soft start turn on, noise-free on-off; independent DC and thermal overload protection on each channel; short circuit and speaker protection; built-in current limiter.
- Front panel led indicators: Active, Signal, Limit and protection
- Roadworthy, rugged steel chassis (2U)
- Modular construction for easy servicing

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For your records

Date of Purchase _____

Dealer's Name _____

City _____

State _____ **Zip** _____

Model # _____

Serial # _____

WARNING

CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN
ATTENTION: RISQUE DE CHOC ELECTRIQUE NE PAS OUVRIR
CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK
DO NOT REMOVE COVER (OR BACK).
NO USER SERVICEABLE PARTS INSIDE.
REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

An equilateral triangle enclosing a lightening flash/arrowhead symbol is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure which may be of sufficient magnitude to constitute a risk of electric shock.

An equilateral triangle enclosing an exclamation point is intended to alert the user to the presence of important operating and service instructions in the literature enclosed with this unit.

IMPORTANT SAFETY INSTRUCTIONS

When using this electronic device, basic precautions should always be taken, including the following:

1. Read all instructions before using the product.
2. Do not use this product near water (e.g., near a bathtub, washbowl, kitchen sink, in a wet basement, or near a swimming pool, etc.).
3. This product should be used only with a cart or stand that will keep it level and stable and prevent wobbling.
4. This product, in combination with headphones or speakers, may be capable of producing sound levels that could cause permanent hearing loss. Do not operate for a long period of time at a high volume level or at a level that is uncomfortable. If you experience any hearing loss or ringing in the ears, you should consult an audiologist.
5. The product should be positioned so that proper ventilation is maintained.
6. The product should be located away from heat sources such as radiators, heat vents, or other devices (including amplifiers) that produce heat.
7. The product should be connected to a power supply only of the type described in the operating instructions or as marked on the product. Replace the fuse only with one of the specified type, size, and correct rating.
8. The power supply cord should: (1) be undamaged, (2) never share an outlet or extension cord with other devices so that the outlet's or extension cord's power rating is exceeded, and (3) never be left plugged into the outlet when not being used for a long period of time.
9. Care should be taken so that objects do not fall into, and liquids are not spilled through, the enclosure's openings.
10. The product should be serviced by qualified service personnel if:
    A. The power supply cord or the plug has been damaged.
    B. Objects have fallen into, or liquid has been spilled onto the product.
    C. The product has been exposed to rain.
    D. The product does not appear to operate normally or exhibits a marked change in performance.
    E. The product has been dropped, or the enclosure damaged.
11. Do not attempt to service the product beyond what is described in the user maintenance instructions. All other servicing should be referred to qualified service personnel.

INSTALLATION

This manual contains important information on operating your **CITRONIC** amplifier correctly and safety. Please read it carefu lly before operating your amplifier. If you have any questions, contact your **CITRONIC** dealer.

UNPACKING

Carefully open the shipping carton and check for any noticeable damage. Every **CITRONIC PPX** Series amplifier is completed tested and inspected before leaving the factory and should arrive in perfect condition. If you find any damage, notify the shipping company immediately. Be sure to save the carton and all packing materials for carrier inspection.

CONTENTS

- Owner's manual
- **PPX** Series amplifier (verify that the unit's serial number is same as shown on shipping carton)
- AC Power cord

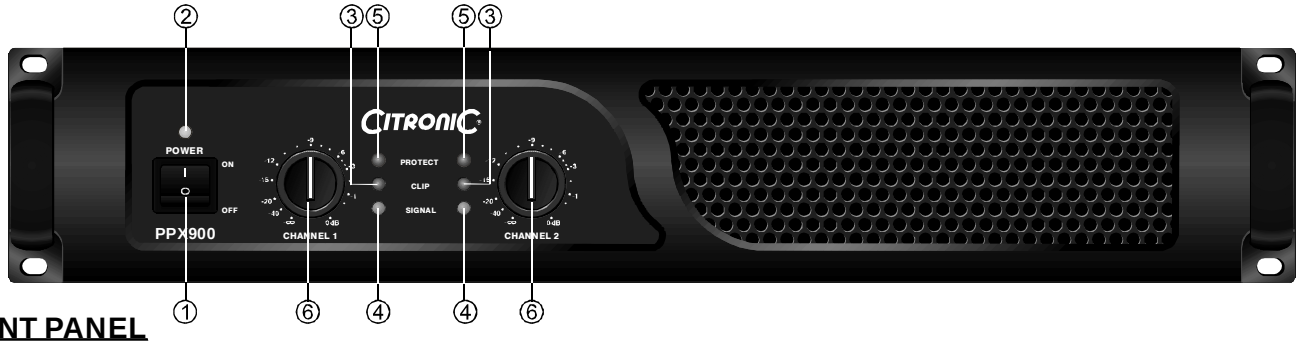
RACK MOUNTING

The **PPX** Series amplifiers are designed for standard 19" rack mounting as well as "stack" mounting without a cabinet. Use 4 screws and washers for mounting to the front rack rails. It is also a good idea to support the amps also in the rear, especially for mobile use where the amps will be subjected to strong vibrations.

AMPLIFIER COOLING

Also pay close attention to the cooling requirements. Never block the air vents in the back side and front of the amplifier.
Do not install the amplifier in a location that is exposed to direct rays of the sun, or near hot appliances or radiators. Excessive heat can adversely affect the cabinet and the internal components. Installation of the amplifier in a damp or dust environment may result in malfunction or accident.
If installed in a rack please be sure to open completely the back door. Periodically remove the internal dust by using compressed air through the external ventilation holes.

FRONT & REAR CONNECTIONS



FRONT PANEL

1. POWER SWITCH
To turn the unit ON or OFF, press the upper or lower portion of this button. Before turning on the amplifier, check all connections and turn down the level controls. A momentary muting is normal when turning the amplifier on or off.
(Caution: Always turn on your power amplifier last, after all your other connected equipment, and always turn off your power amplifier before your other connected equipment.)

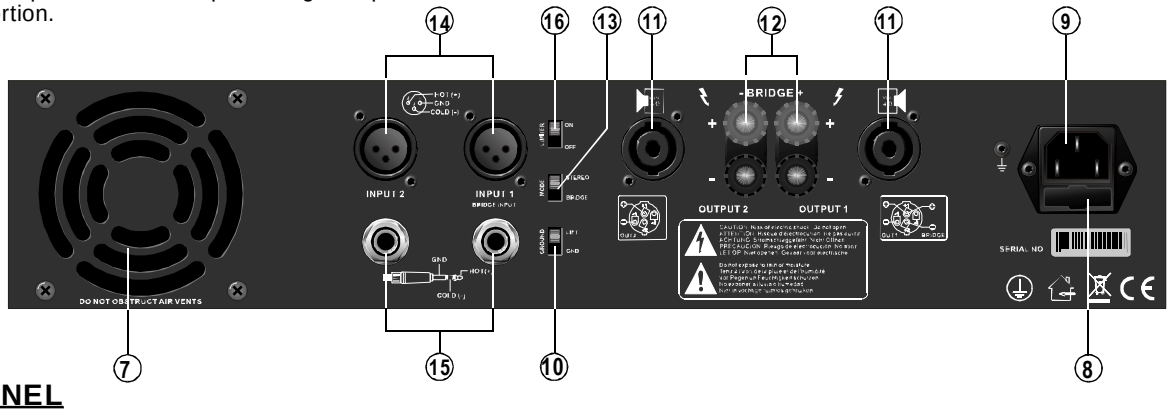
2. POWER LED INDICATORS
These LEDs illuminate when the power is turned "ON".

3. CLIP LED INDICATORS
These LEDs illuminate if any section of the power amplifier's output are within 3dB of clipping. Occasional blinking of the LEDs are acceptable, but if they remain on more than intermittently you should turn down either the power amplifier's level controls or reduce the output level of the preceding component to avoid audible distortion.

4. SIGNAL LED INDICATORS
These LEDs illuminate to confirm the presence of an input signal greater than 100 mV at that channel of the amplifier

5. PROTECT LED INDICATORS
These LEDs illuminate if the power amplifier's output connection is shorted , the load impedance is too low. Or if there is an internal malfunction When either of these LEDs is lit up, turn OFF the power and check the output's connection to verify that it is correct, then turn ON the power again.

6. LEVEL CONTROLS
These control the level of signal coming into each channel. The actual voltage attenuation of the amplifier is shown in dB. Turn these controls counterclockwise if the Limit LEDs illuminate steadily (indicating a too strong input signal).



REAR PANEL

7. FAN
Front to rear forced airflow.

8. FUSE
This main fuse secures the amplifier and wires against defects. Replace this only with a fuse of same type and value.

9. MAINS POWER CONNECTOR

10.GROUND LIFT SWITCH
Allows circuit and chassis grounds to be separated in case of problems with earth loops (hum).

11.SPEAKER OUTPUTS NL4
Maximum load in stereo/mono mode 4 Ohm per channel.
Pin +1 & +2 = + output, Pin -1 & -2 = - output

12.BINDING POST OUTPUT JACKS
Maximum load in stereo/mono mode 4 Ohm per channel.
Maximum load in bridge mode 8 Ohm.

13. MODE SWITCH
The amplifier can use 3 different modes:stereo,bridge & parallel (mono). Choose one of these functions:
Stereo mode: Standard left/right stereo mode.

Bridge mode: This mode combines both amps on one channel which results in double power on this channel. Connects the signal to the left input channel and the output level can now be adjusted with the left volume control.

14. BALANCED XLR INPUTS
Two 3-pin female XLR input connector for connecting a signal source (mixer etc.).

15.BALANCED 6.3mm STEREO JACK INPUTS
Two 6.3mm jack female input connector for connecting a signal source (mixer etc.).

16.BUILTIU LIMITER ON/OFF SELECTOR

SPECIFICATIONS

POWER SPECIFICATIONS	PPX300	PPX600	PPX900
STEREO INTO (4Ω)	2x150W	2x300W	2x450W
STEREO INTO (8Ω)	2x100W	2x200W	2x300W
BRIDGE-MONO INTO (8Ω)	300W	600W	900W

POWER SPECIFICATIONS	PPX300	PPX600	PPX900
INPUT SENSITIVITY	1.228V		
INPUT IMPENDANCE	10kΩ balanced		
FREQUENCY RESPONSE (at 10db below rated output power)	10Hz~20KHz		
DISTORTION (SMPTE-1M)	<0.5%		
S/N RATIO	95dB		

GENERAL SPECIFICATIONS	PPX300	PPX600	PPX900
PROTECTIONS	Full short cicuit,thermal,Ultrasonic,RF protection signal muting & current limiter.		
CONTROLS	Front: Power switch,inputlevel control for each channel.		
INDICATORS	POWER: 1 x BLUE LED SIGNAL: 2 x GREEN LED CLIP: 2 x RED LED PROTECT: 2 x RED LED		
CONNECTORS	POWER: IEC power cord		
	INPUT: 1/4" (6.3mm)TRS OUTPUT: SPEAKON		
POWER SUPPLY	Voltage selectable: 230V AC 50Hz		
FUSES (250V)	T2.5A	T4A	T8A
DIMENSIONS	482x229.5x88.8mm		482x389.5x88.8mm
WEIGHT (kg)	8/10	11/13	12/14

The specifications above are correct at the time of printing of this manual. For improvement purposes, all specifications for this unit, including design and apperance, are subject to change without prior notice.